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The Robber Crab (Birgus latro) with Special Reference to Its Respiratory System

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The potassium salts were super-imposed on this basal ration varying in amounts ranging from ¼ to 1 ounce per ewe daily during the pregnancy period.

IOWA STATE COLLEGE.

THE ROBBER CRAB (*BIRGUS LATRO*) WITH SPECIAL REFERENCE TO ITS RESPIRATORY SYSTEM

C. C. NUTTING

(*ABSTRACT*)

The general appearance anatomy and habits of this crab are described briefly. The main part of the paper is devoted to a description of the very remarkable respiratory system which is more highly modified for aerial respiration than any other decapod crustacean. The relation of this form to the hermit crabs is pointed out.

STATE UNIVERSITY OF IOWA.

PROTEIN REQUIREMENTS OF LACTATING SOWS WITH LITTERS

Q. W. WALLACE AND JOHN M. EVVARD

(*ABSTRACT*)

A number of experiments with lactating sows carried on various rations during the suckling period and continued until the pigs were 60 days old were conducted in the lactating sows with litter project at the Iowa Agricultural Experiment Station.

In brief, the experiments show the amounts of protein and carbohydrate equivalent consumed daily by sows and pigs and the protein requirements for the hundred pounds of gain, this being based on the net gain made. A number of different rations were fed in dry lot and the protein consumption and requirements computed. The nutritive ratio recommended generally for lactating sows is 1 : 5. In some of our experiments with sows allowed free choice of good feeds the ratio has been 1 : 1.4 or wider and in certain exceptional cases the ratio has been as narrow as 1 : 1.2.

The protein storage in the body of the young pig may be estimated on the basis of the protein content in the hundred pounds of gain made and the protein required, i. e., consumed, to make the hundred pounds of gain. Young pigs are estimated to put